

<b>U.S.A. Concrete, Inc.</b>	)	<b>DEPARTMENTAL</b>
<b>Franklin County</b>	)	<b>FINDINGS OF FACT AND ORDER</b>
<b>Phillips, Maine</b>	)	<b>AIR EMISSION LICENSE</b>
<b>A-639-71-F-M/R</b>	)	

After review of the air emission license application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

# **I. REGISTRATION**

## **A. Introduction:**

U.S.A. Concrete, Inc. (USA Concrete) located in Phillips, Maine has applied to renew their Air Emission License, permitting the operation of their concrete batch plant. USA Concrete has also applied to add a 1 MMBtu/hr Boiler to their license.

## **B. Emission Equipment:**

### **Concrete Plant:**

<b>Equipment</b>	<b>Process Rate (cubic yards/hour)</b>	<b>Power Source</b>	<b>Control Devices</b>	<b>Stack ID</b>
Concrete Batch Plant	90	Domestic Electrical (CMP)	baghouse	1

### **Other Equipment**

<b>Equipment</b>	<b>Heat Input MMBtu/hr</b>	<b>Firing Rate gal/hr</b>	<b>Fuel Type</b>	<b>Date of Instillation</b>
Boiler	1.0	10.6	Propane	2003

**NOTE:** USA also operates a 0.5 MMBtu/hr hot water heater firing propane. This propane unit is considered an insignificant activity and is listed for inventory purposes only.

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C. Application Classification:

With the addition of a boiler, this application is considered a minor modification and a renewal of USA Concrete's existing license. This license modification and renewal is for a non-major source and has been processed as such.

**II. BEST PRACTICAL TREATMENT**

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent best practical treatment (BPT), as defined in Chapter 100 of the Bureau of Air Quality regulations. BPT for new emissions equipment consists of applying Best Available Control Technology (BACT). BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

the existing state of technology;  
the effectiveness of available alternatives for reducing emissions from the source being considered; and  
the economic feasibility for the type of establishment involved.

A. Concrete Batch Plant:

To meet the requirements of BPT for control of particulate matter (PM) emissions from the cement silo, particulate emissions shall be vented through a baghouse maintained for 99% removal efficiency. Visible emissions from the cement silo baghouse shall not exceed 5% opacity based on one six (6) minute block average. All components of the concrete batch plant shall be maintained so as to prevent PM leaks. Visible emissions from concrete batching operations shall not exceed 20% opacity on a six (6) minute block average basis, for more than one (1) six (6) minute block averages in one hour.

B. Boiler

The Boiler is less than 10 MMBtu/hr and is therefore not subject to 40 CFR, Part 60, Subpart Dc.

BACT for the Boiler shall be the following:

PM/PM<sub>10</sub> - 0.05 lb/MMBtu, BACT  
SO<sub>2</sub> – combustion of propane, 0.1 lb/1000 gal, AP-42  
NO<sub>x</sub> – good combustion, 14 lb/1000 gal, AP-42  
CO – good combustion, 1.9 lb/1000 gal, AP-42  
VOC – good combustion, 0.5 lb/1000 gal, AP-42

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Opacity – 10% on a six minute block average, except for no more than two (2) six (6) minute block averages in a 3-hour period.

The licensed lb/hr emission limits are based on the BACT lb/MMBtu or lb/1000 gal.

C. Stock Piles and Roadways:

BPT for all potential sources of fugitive PM emissions, including material stockpiles and unpaved roadways, shall be controlled by wetting with water, with calcium chloride, or other methods as approved by the Bureau of Air Quality. Visible emissions stock piles and roadways shall not exceed an opacity of 10%, except for no more than 5 minutes in any one hour period. Compliance shall be determined by an aggregate of the individual 15 second opacity observations which exceed 10% in any one hour period.

D. Total Emissions and Fuel Use Cap

USA Concrete shall be limited to 50,000 gal/yr of propane fuel (12 month rolling total).

**Total Facility Emissions**  
(Used to calculate the annual license fee)

<b>Pollutant</b>	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>VOC</b>
	Ton/yr	Ton/yr	Ton/yr	Ton/yr	Ton/yr	Ton/yr
Boiler	0.12	0.12	0.01	0.35	0.05	0.01
<b>Total</b>	<b>0.12</b>	<b>0.12</b>	<b>0.01</b>	<b>0.35</b>	<b>0.05</b>	<b>0.01</b>

**III. AMBIENT AIR QUALITY ANALYSIS**

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by-case basis. Based on the information available in the file, and the similarity to existing sources, Maine Ambient Air Quality Standards (MAAQS) will not be violated.

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### **ORDER**

Based on the above Findings and subject to conditions listed below the Department concludes that the emissions from this source:

will receive Best Practical Treatment,  
will not violate applicable emission standards,  
will not violate applicable ambient air quality standards in  
conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-639-71-F-M/R, subject to the following conditions:

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions.
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115.
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both.
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request.
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 MRSA §353.
- (6) The license does not convey any property rights of any sort, or any exclusive privilege.

- (7) The licensee shall maintain and operate all emission units and air pollution control systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions.
- (8) The licensee shall maintain sufficient records, to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request.
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for the renewal of a license or amendment shall not stay any condition of the license.
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license.
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
  - (i) perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
    - a. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
    - b. pursuant to any other requirement of this license to perform stack testing.
  - (ii) install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
  - (iii) submit a written report to the Department within thirty (30) days from date of test completion.

- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
- (i) within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
  - (ii) the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
  - (iii) the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.
- (13) Notwithstanding any other provision in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement.
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emissions and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation.
- (15) Upon written request of the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status

(16) Concrete Batch Plant:

- a. Particulate emissions from the cement silo shall be vented through a baghouse and all components of the batch plant shall be maintained so as to prevent PM leaks.
- b. To document maintenance of the cement silo baghouse, the licensee shall keep a maintenance log recording the date and location of all bag failures as well as all routine maintenance. The maintenance log shall be located at the facility whenever the facility is in operation.
- c. Opacity from the cement silo baghouse is limited to no greater than 5% based on one six (6) minute block average.
- d. PM emissions from the concrete batching operation shall be controlled so as to prevent visible emissions in excess of 20% opacity on a six (6) minute block average basis, except for no more than one (1) six (6) minute block averages in one hour.

(17) Boiler:

A. Emissions shall not exceed the following:

Equipment		PM	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC
Boiler	lb/hr	0.05	0.05	0.01	0.15	0.02	0.01

- B. USA Concrete shall limit Boiler visible emissions to 10% on six minute block average, except for no more than two (2) six (6) minute block averages in a 3-hour period.
- C. USA Concrete shall be limited to 50,000 gal/yr of propane fuel (12 month rolling total). Fuel delivery records shall be maintained for compliance purposes.

(18) Potential sources of fugitive PM emissions including material stockpiles and unpaved roadways, shall be controlled by wetting with water, with calcium chloride, or other methods as approved by the Bureau of Air Quality. Visible emissions stock piles and roadways shall not exceed an opacity of 10%, except for no more than 5 minutes in any one hour period. Compliance shall be determined by an aggregate of the individual 15 second opacity observations which exceed 10% in any one hour period.

(19) USA Concrete shall notify the Bureau of Air Quality, by a written notification at least 10 days in advance, prior to relocation of any equipment carried on this license. Written notification shall also be made to the municipality where the equipment will be relocated to, except in the case of an unorganized territory where notification will be made to the respective county commissioners.

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(20) USA Concrete shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order.

(21) The term of this order shall be for five (5) years from the signature date below.

DONE AND DATED IN AUGUSTA, MAINE THIS      DAY OF      2003.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_  
DAWN R. GALLAGHER, COMMISSIONER

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: June 30, 2003.

Date of application acceptance: July 7, 2003.

Date filed with the Board of Environmental Protection \_\_\_\_\_

This order prepared by Jonathan Voisine, Bureau of Air Quality.